

M 4.5, 11 km WNW of Malibu, CA

Origin Time: 2024-02-09 21:47:26 UTC (Fri 13:47:26 local)
Location: 34.0012° N 118.9128° W Depth: 10.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

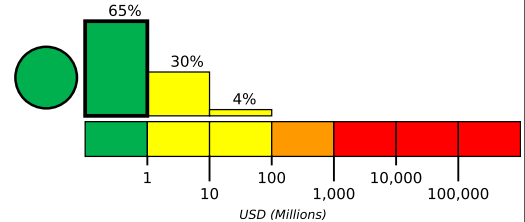
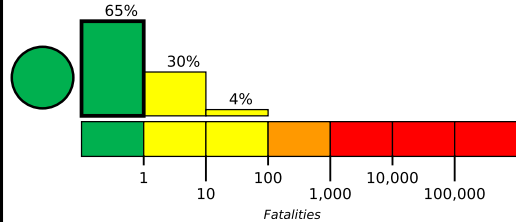
PAGER Version 14

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

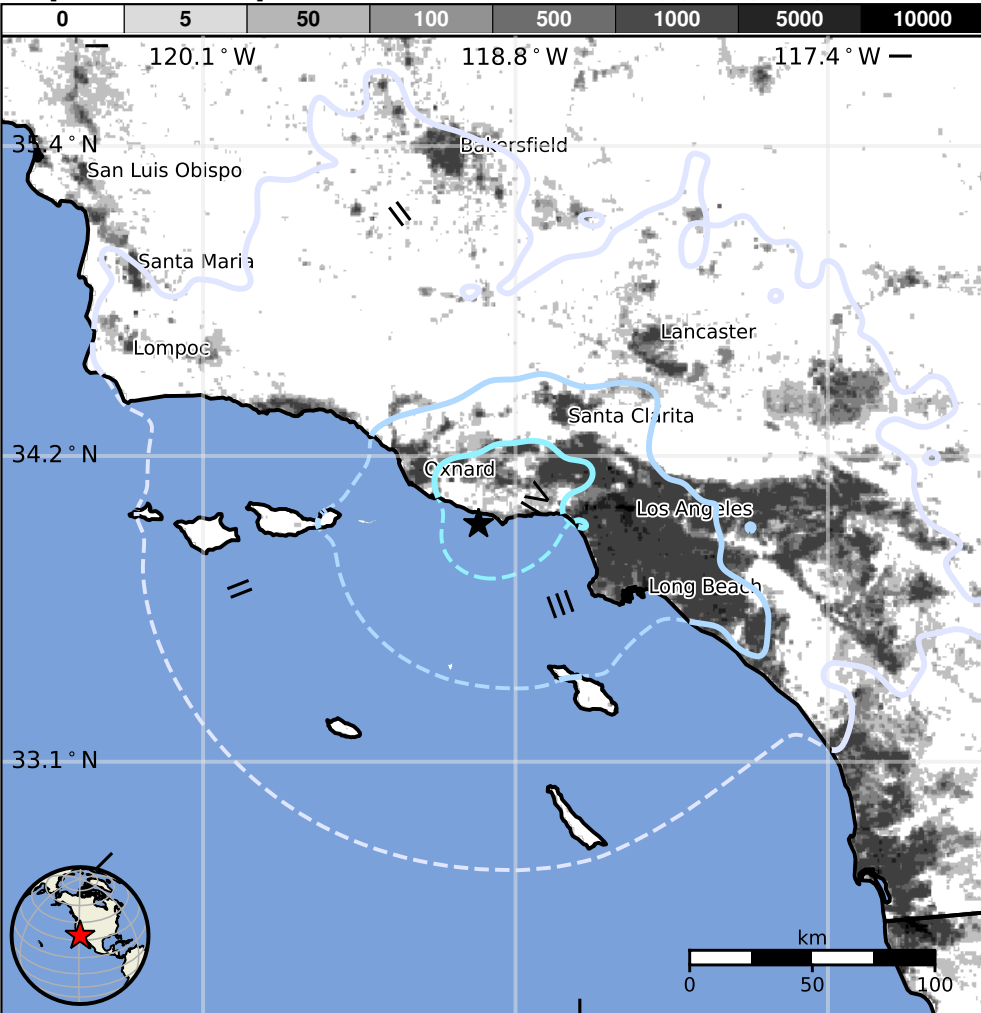


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		5,804k*	18,276k	2,061k	17k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	87	5.6	VI(1,267k)	1
2003-12-22	266	6.6	VI(8k)	2
1971-02-09	65	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Agoura	21k
IV	Malibu	13k
IV	Westlake Village	9k
IV	Malibu Beach	14k
IV	Woodland Hills	70k
IV	Calabasas	23k
III	Long Beach	462k
III	Los Angeles	3,793k
II	Bakersfield	347k
I	San Diego	1,307k
I	Tijuana	1,376k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
<https://earthquake.usgs.gov/earthquakes/eventpage/ci40664632#pager>

bold cities appear on map.

(k = x1000)